

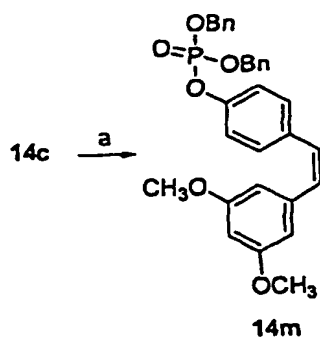
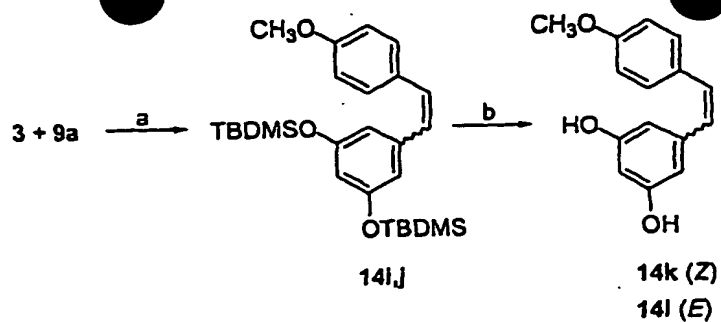
REPLACED BY
ART 34 AMDT

11. A pharmaceutical composition comprising the compound of claim 1, or a pharmaceutically acceptable salt thereof.
12. A pharmaceutical composition comprising the compound of claim 2, or a pharmaceutically acceptable salt thereof.
13. A pharmaceutical composition comprising the compound of claim 3, or a pharmaceutically acceptable salt thereof.
14. A pharmaceutical composition comprising the compound of claim 4, or a pharmaceutically acceptable salt thereof.
15. A method for treating humans and mammals afflicted with cancer, comprising administering a physiologically effective amount of the compound of claim 1, or a pharmaceutically acceptable salt thereof.

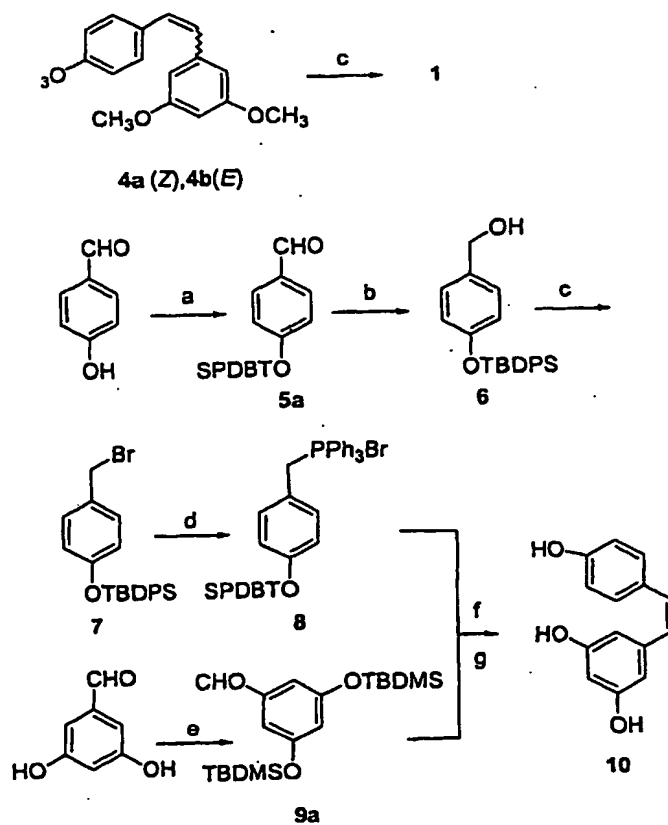
16. A method for treating humans and mammals afflicted with cancer, comprising administering a physiologically effective amount of the compound of claim 2, or a pharmaceutically acceptable salt thereof.

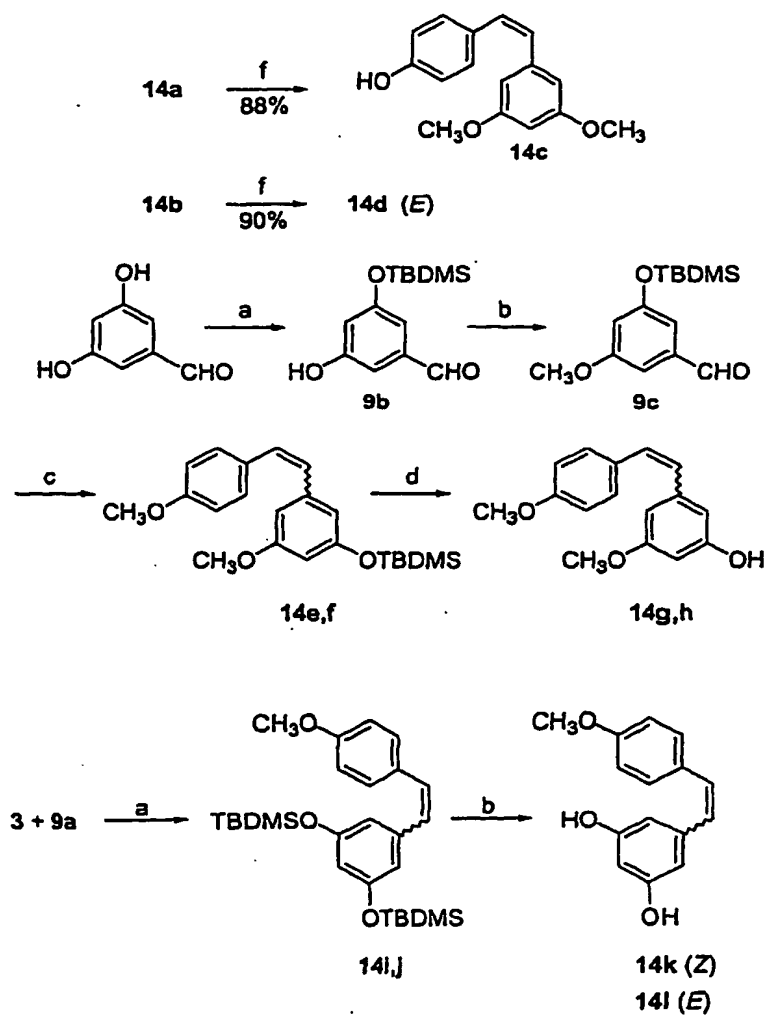
17. A method for treating humans and mammals afflicted with cancer, comprising administering a physiologically effective amount of the compound of claim 3, or a pharmaceutically acceptable salt thereof.

18. A method for treating humans and mammals afflicted with cancer, comprising administering a physiologically effective amount of the compound of claim 4, or a pharmaceutically acceptable salt thereof.



10. A method for synthesizing the resveratrol derivative of claim 4 wherein R₁₀ = R₁₁ = -OCH₃ and R₁₂ = -O(PO)(ONa)₂, comprising the following steps:

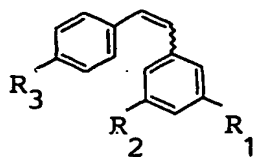




CLAIMS

What is claimed is:

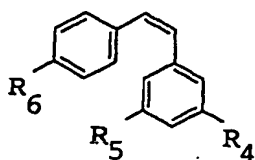
1. A resveratrol derivative having the formula:



selected from the group consisting of compounds wherein:

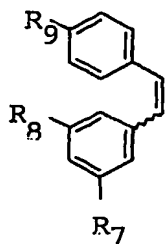
- a) $R_1 = R_2 = R_3 = -OCH_3$; and
- b) $R_1 = OH$ and $R_2 = R_3 = -OCH_3$.

2. A resveratrol derivative having the formula:



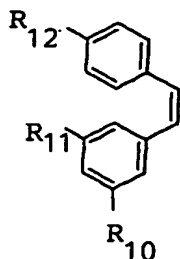
wherein $R_4 = R_5 = -OCH_3$ and $R_6 = -OH$.

3. A resveratrol derivative having the formula:



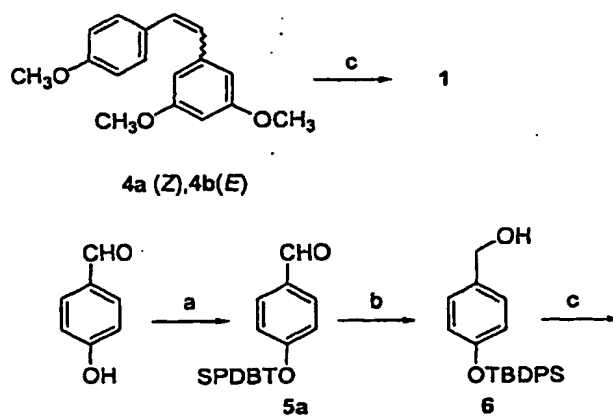
wherein $R_7 = R_8 = -OH$ and $R_9 = -OCH_3$.

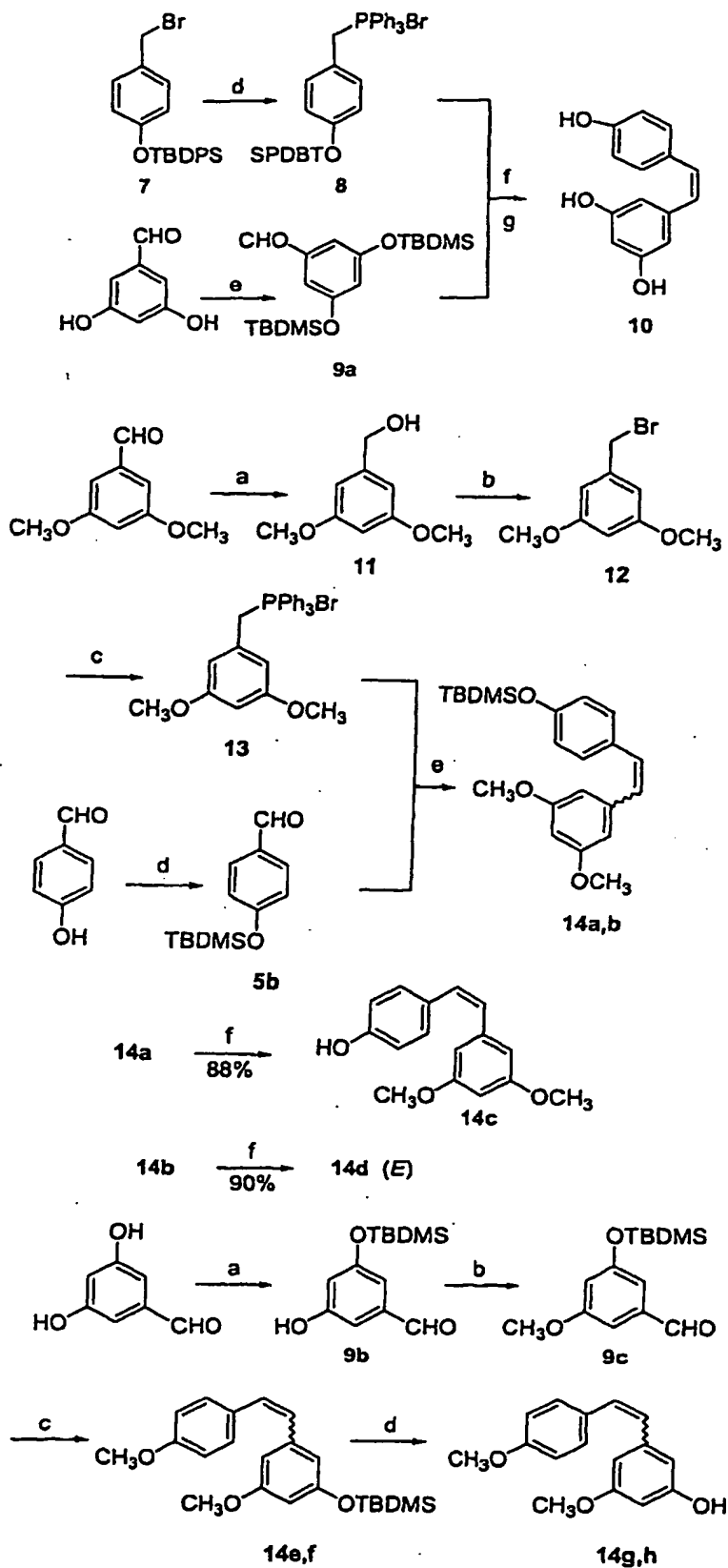
4. A resveratrol derivative having the formula:



selected from the group consisting of compounds wherein:

- a) $R_{10} = R_{11} = -OCH_3$ and $R_{12} = -O(PO)(OBn)_2$; and
- b) $R_{10} = R_{11} = -OCH_3$ and $R_{12} = -O(PO)(ONa)_2$.
5. A method for synthesizing the resveratrol derivative of claim 1 wherein $R_1 = R_2 = R_3 = -OCH_3$, comprising reacting phosphonium bromide and 3,5-dimethylbenzaldehyde.
6. A method for synthesizing the resveratrol derivative of claim 1 wherein $R_1 = -OH$ and $R_2 = R_3 = -OCH_3$, comprising the following steps:





7. A method for synthesizing the resveratrol derivative of claim 2 comprising the following steps:

